

FIGURE 1

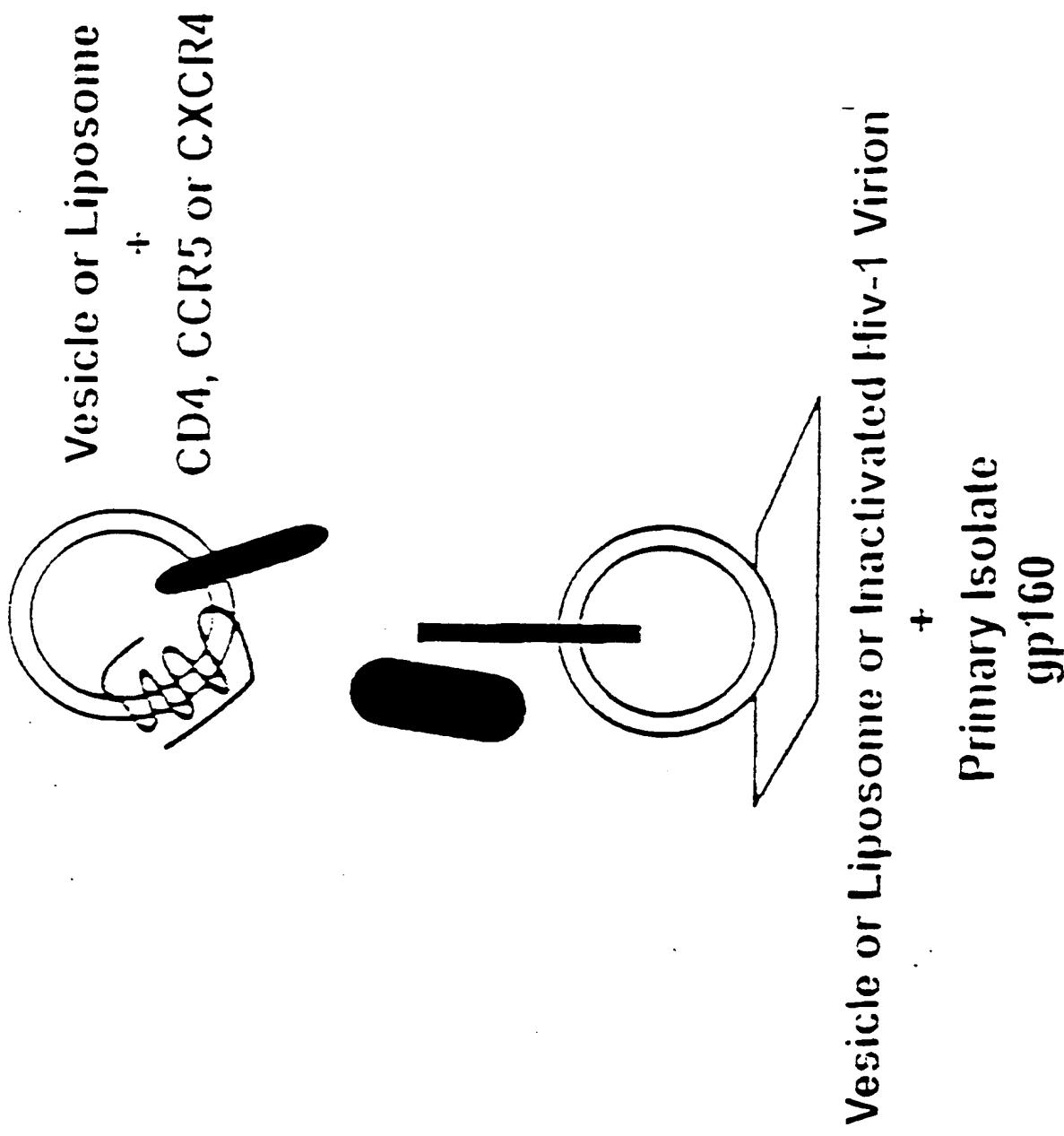
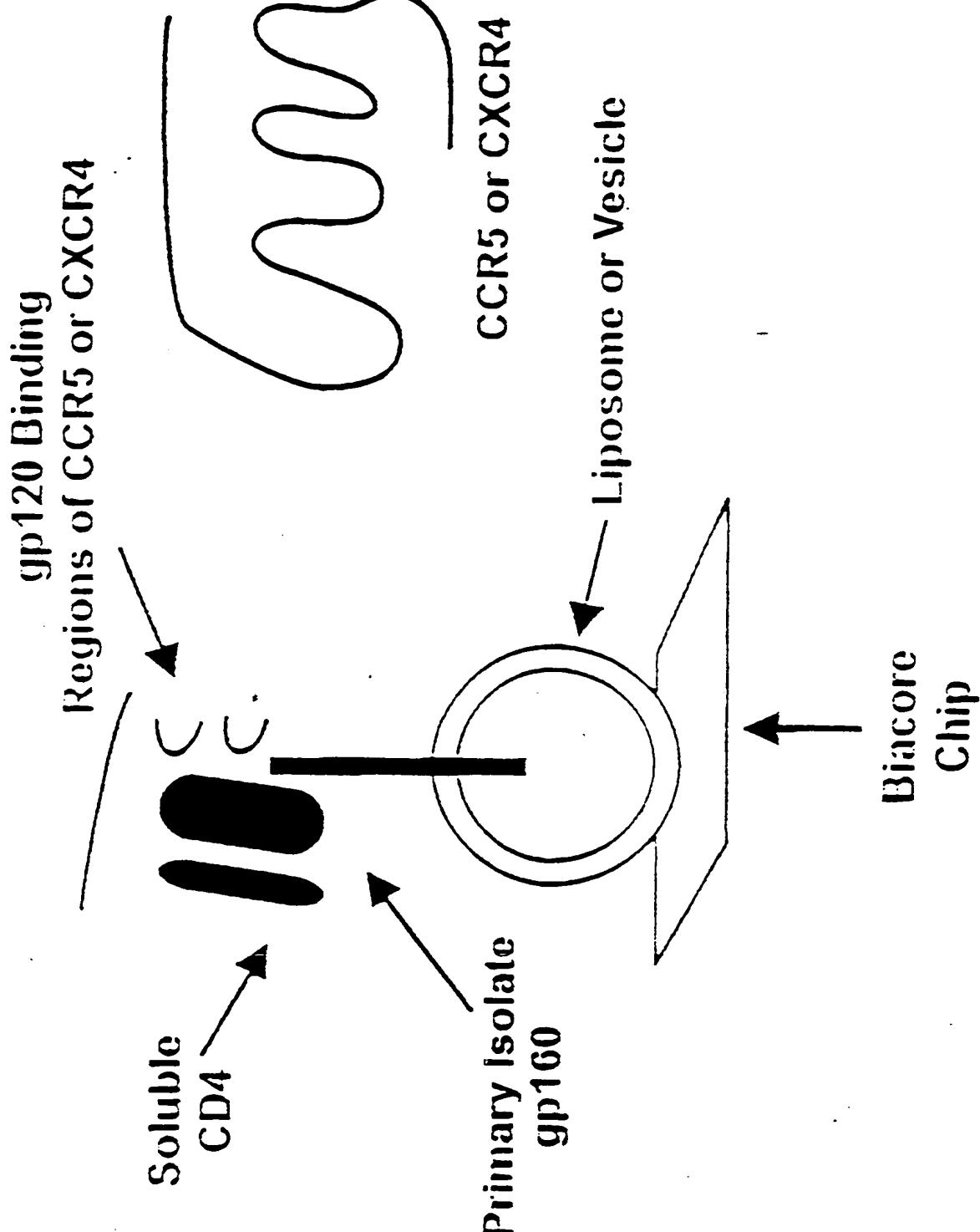


FIGURE 2



BLAcore measurements of binding interactions
between soluble gp120 (D1112) and CD4

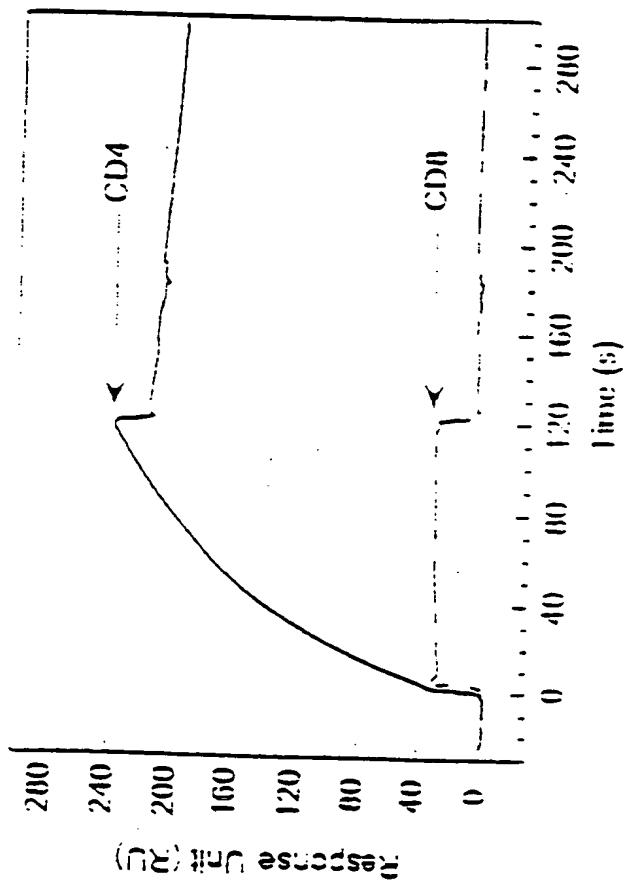
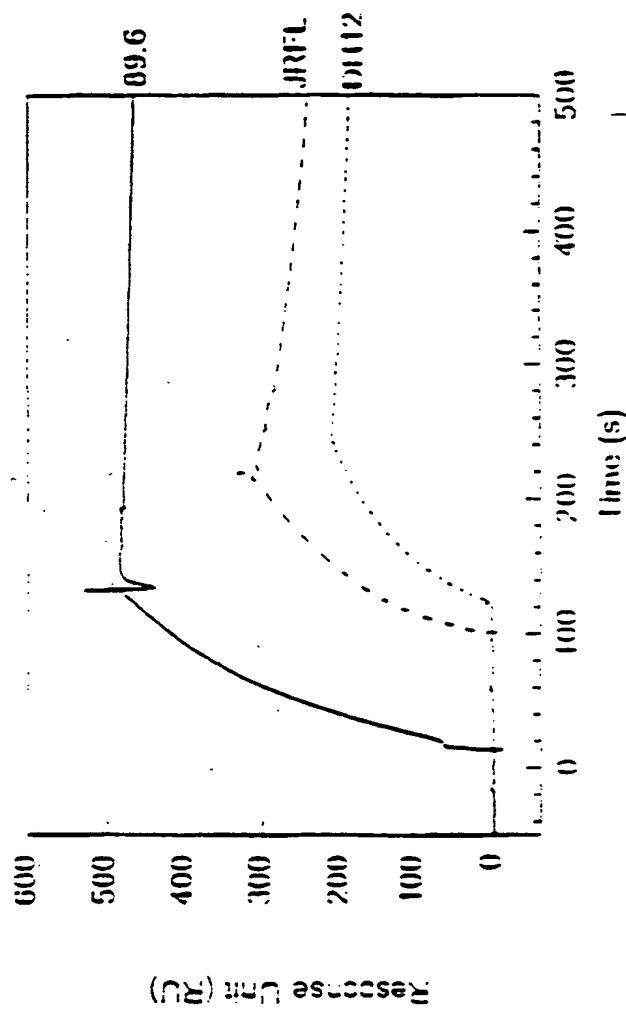


FIGURE 4

Binding interactions between soluble gp120 proteins and CD4



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**Kinetics and binding affinities of the interactions between
IgM20 and C'D4**

	k_a M ⁻¹ s ⁻¹ (on-rate)	k_{off} s ⁻¹ (off-rate)	K _a M	t _{on} min
IgM20				
JRFL	6.0x10 ¹	8.84x10 ⁻⁴	1.5x10 ⁻⁷	14
DH12	4.9x10 ¹	3.86x10 ⁻⁴	7.8x10 ⁻⁸	30
89.6	4.6x10 ¹	8.48x10 ⁻⁵	1.8x10 ⁻⁶	136

FIGURE 6

Binding of soluble CD4 to gp120-expressing
membranes from CHO-wt cells

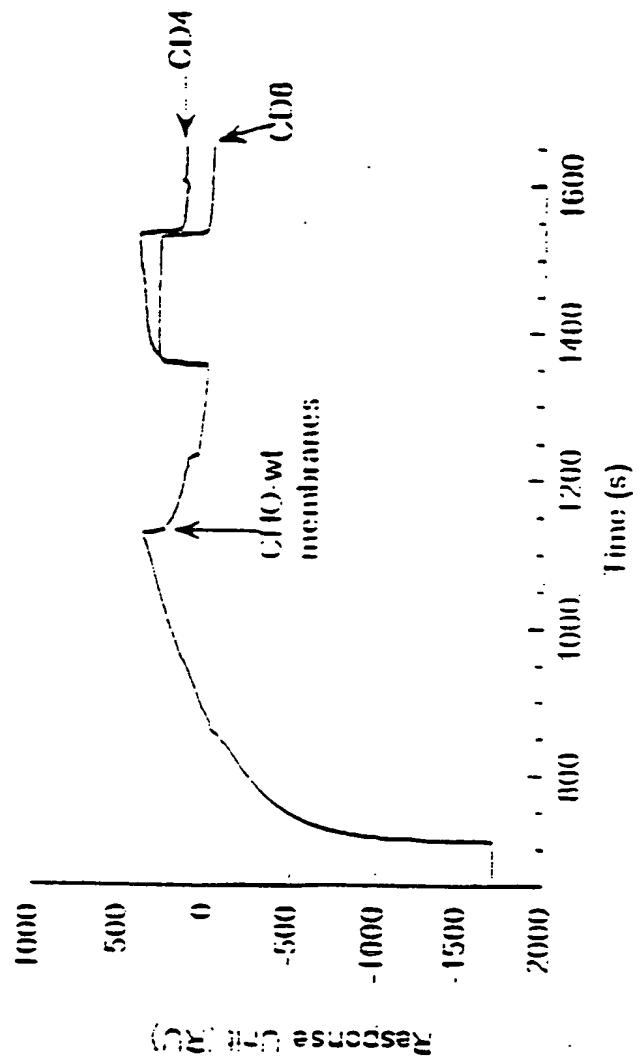
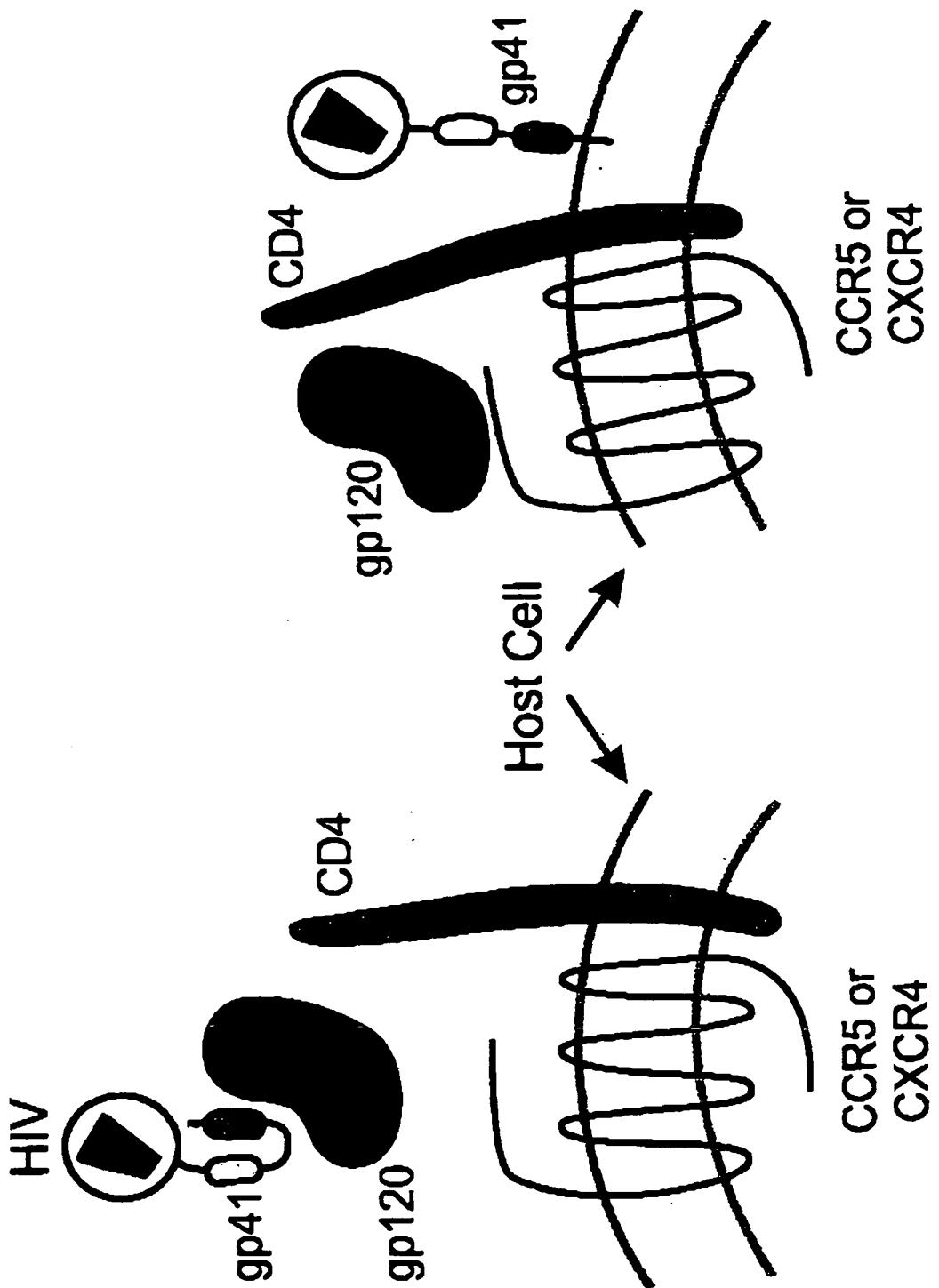


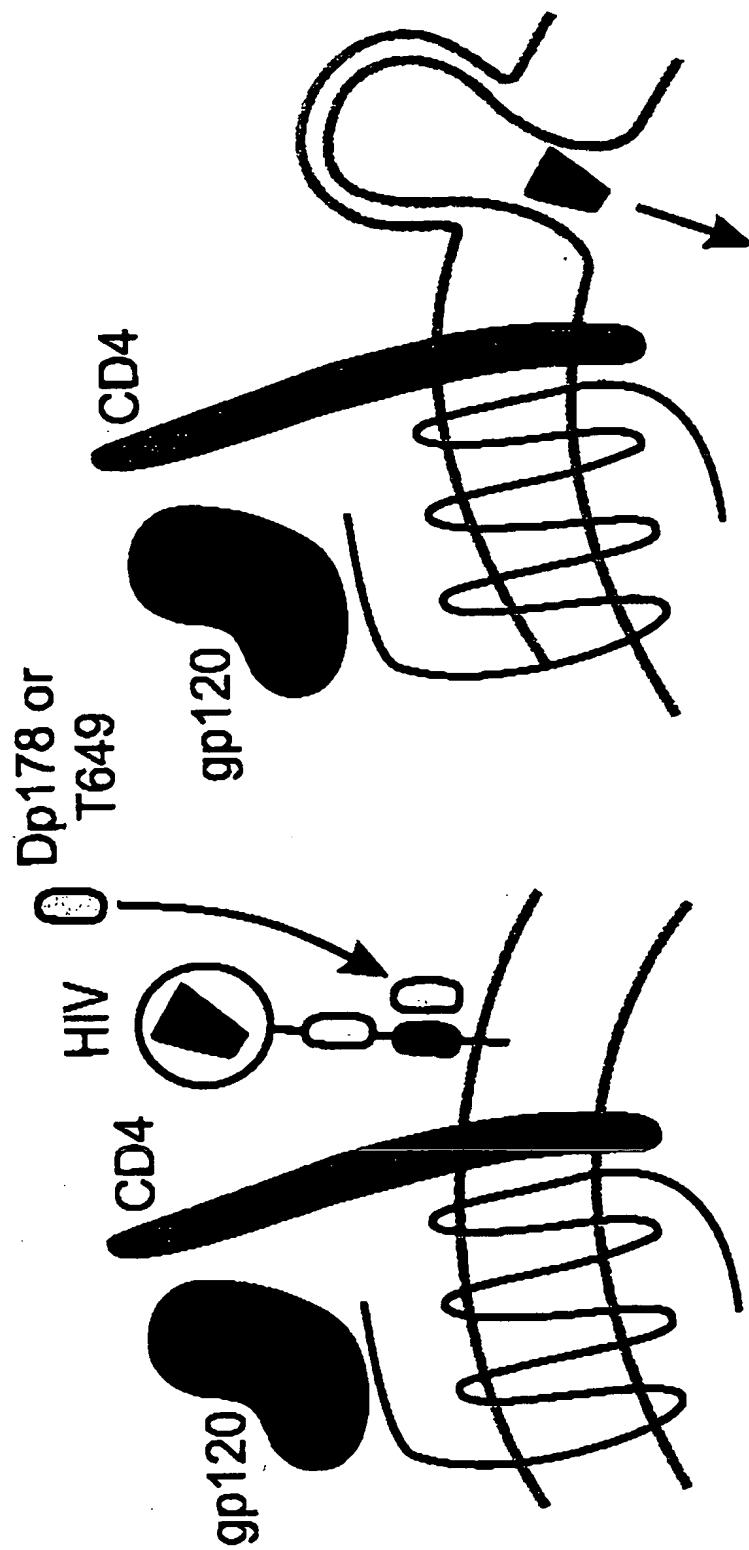
FIGURE 7



HIV gp41 inserts into cell lipid bilayer

HIV Binds

Figure 8



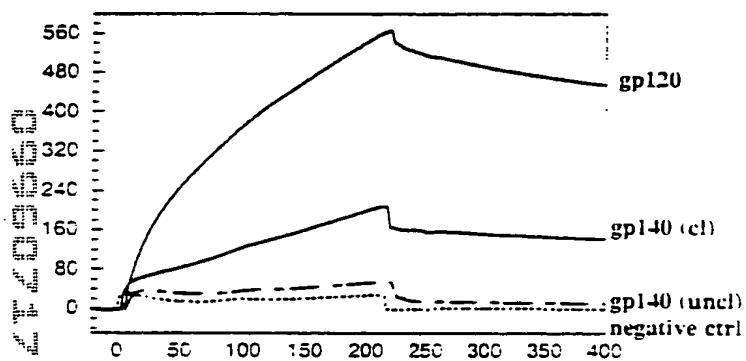
HIV fusion occurs
in the absence of
fusion inhibitory
peptide

HIV fusion blocked
by Dp178 or T649
peptides producing
“frozen” fusion intermediate

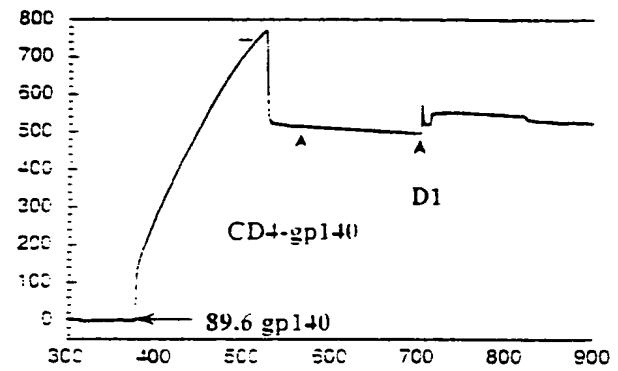
→
freeze

Figure 10

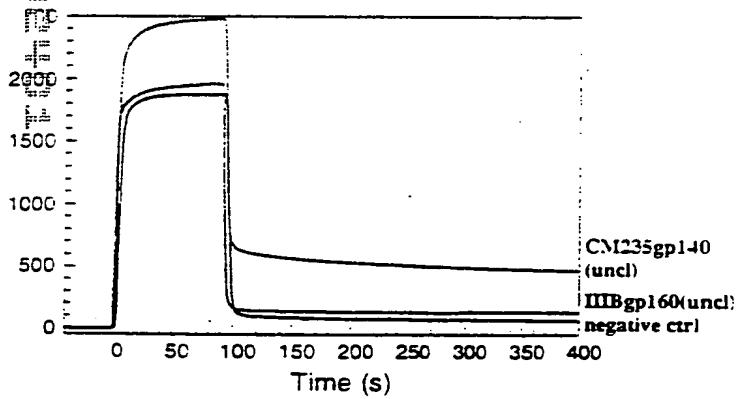
A)



C)



B)



D

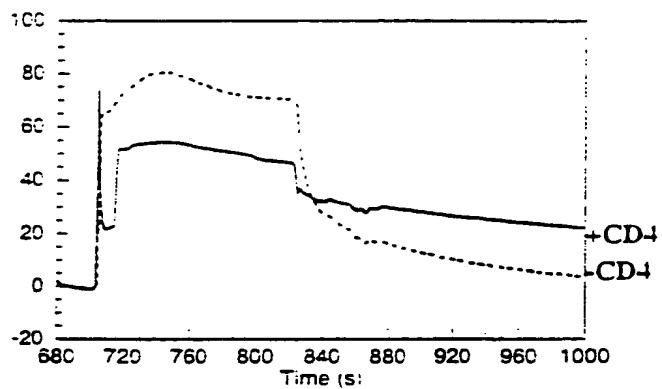
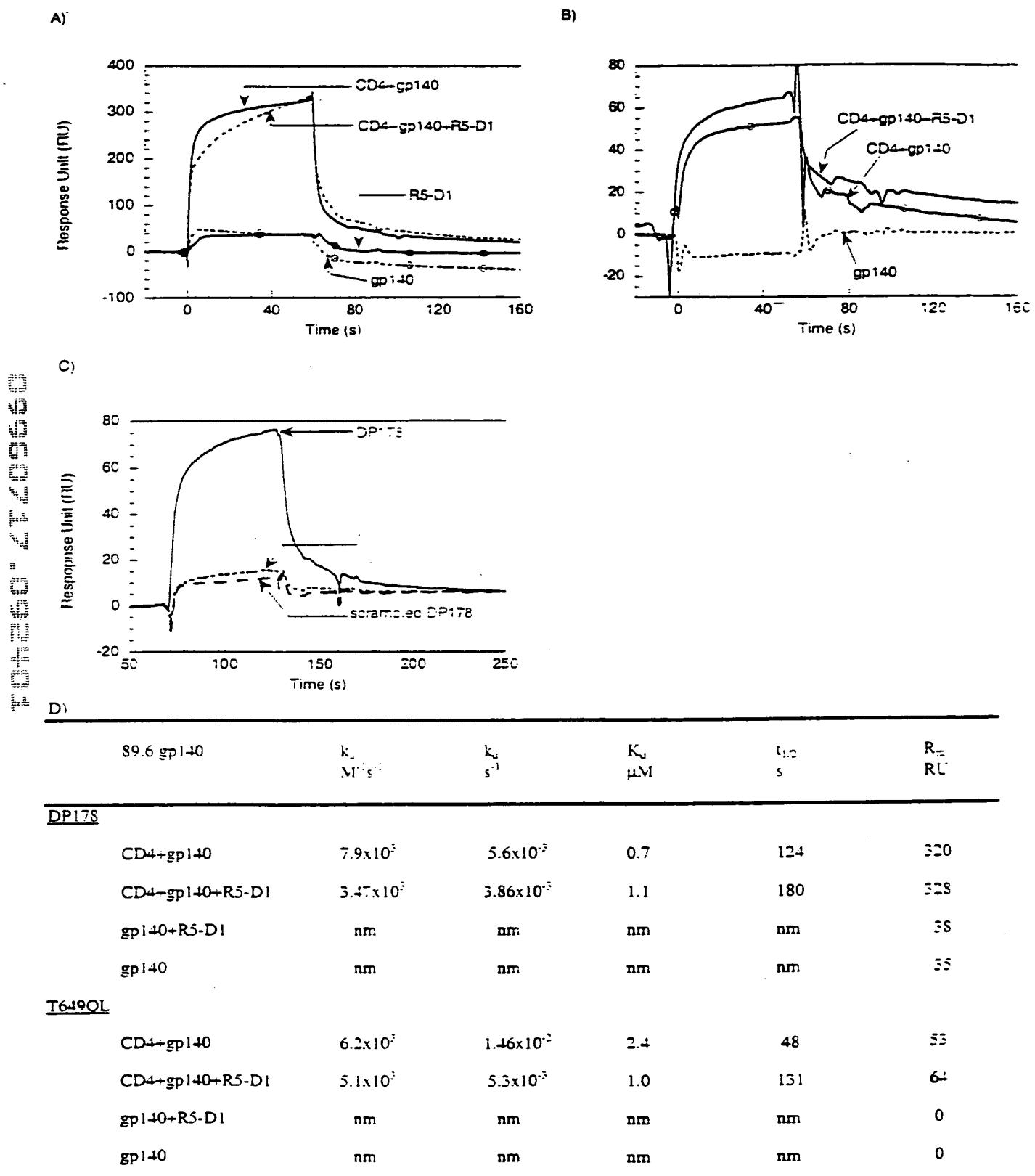


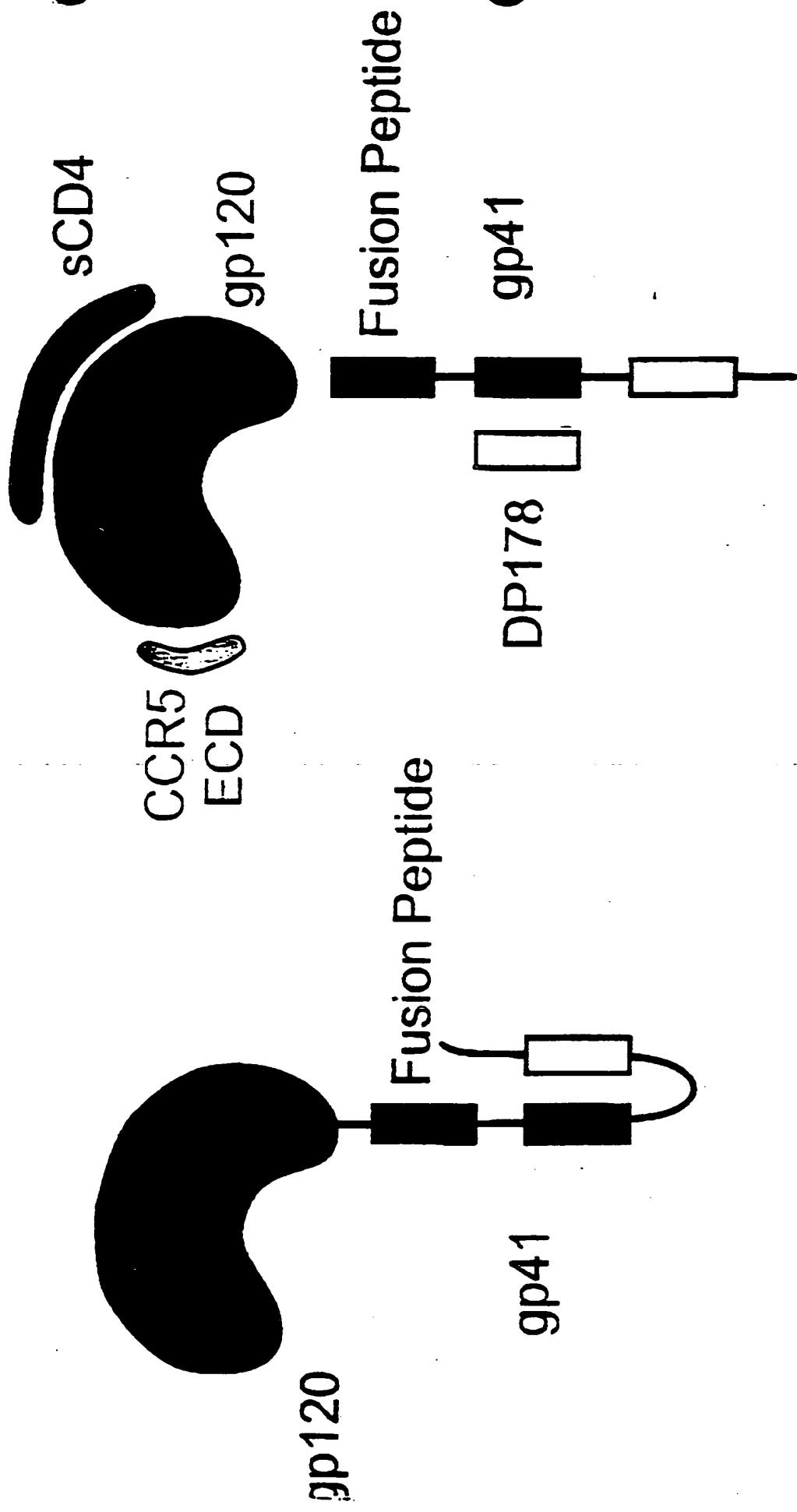
FIGURE 11



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July 21

Induced Binding of HR-2 Peptides to Soluble HIV 89.6 gp140 Envelope



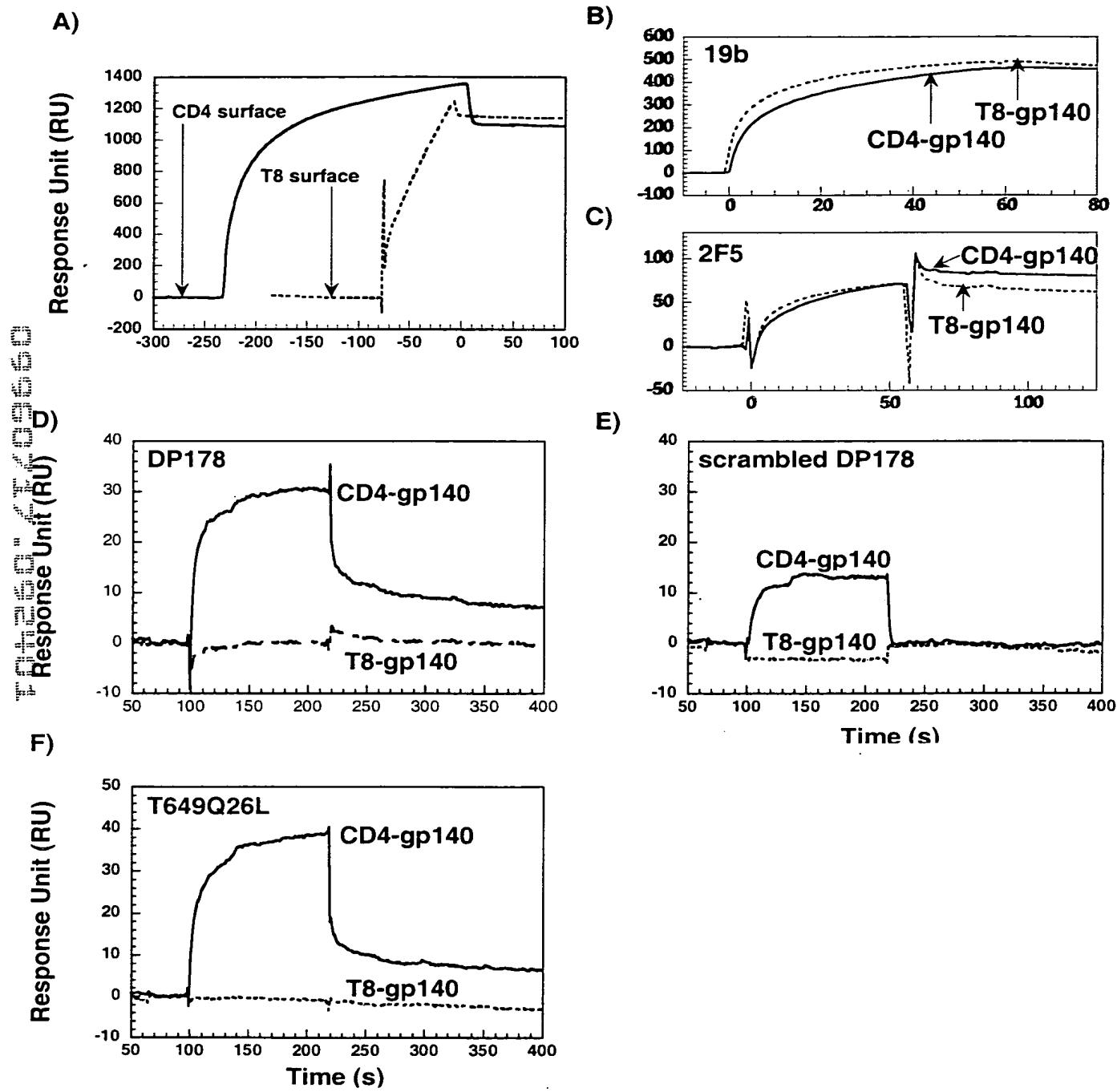
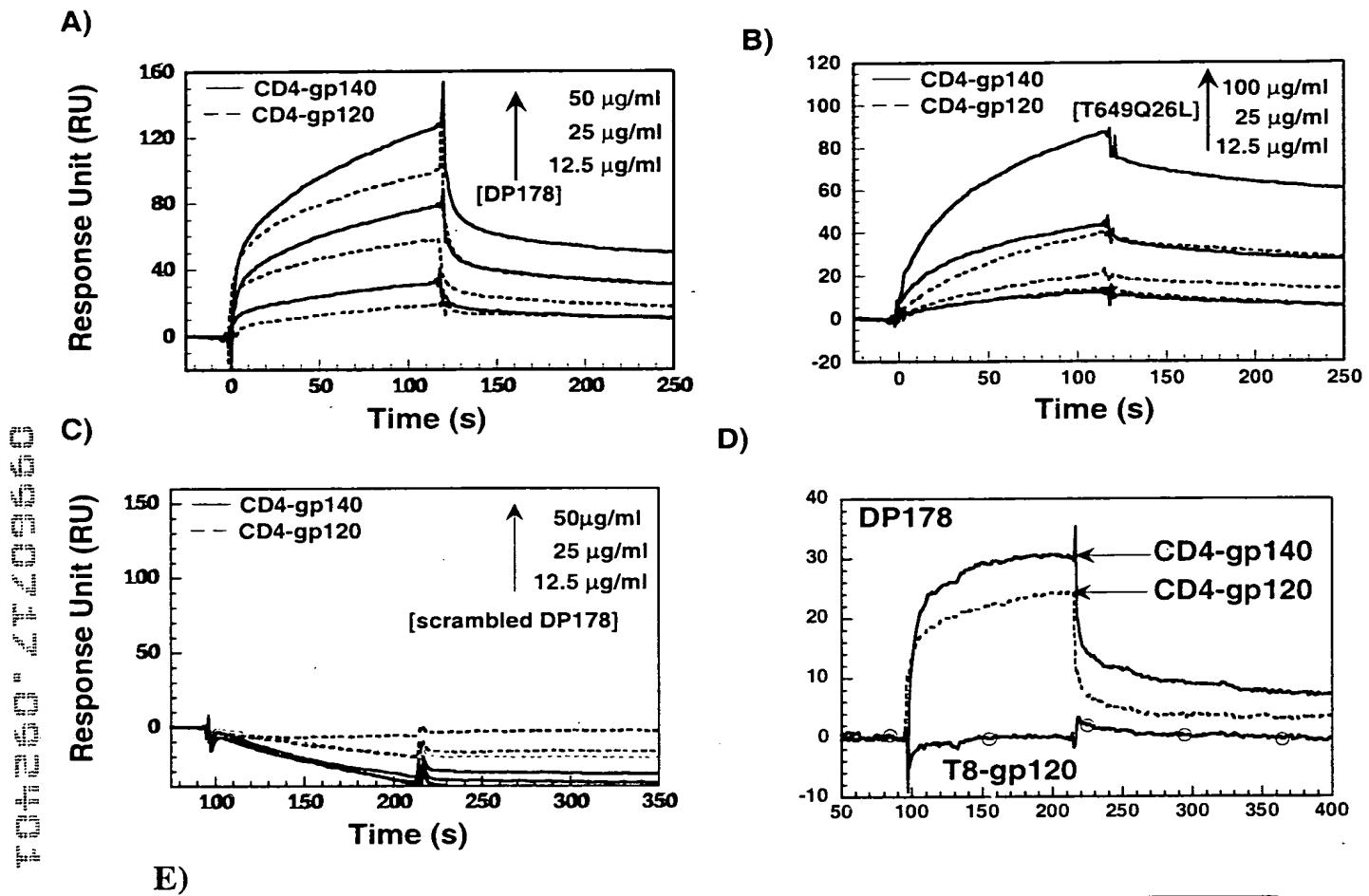


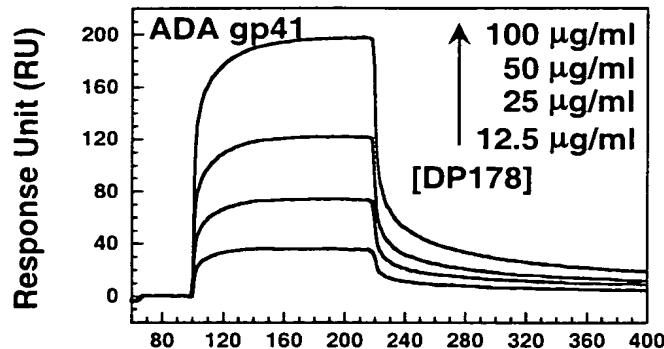
Figure 14



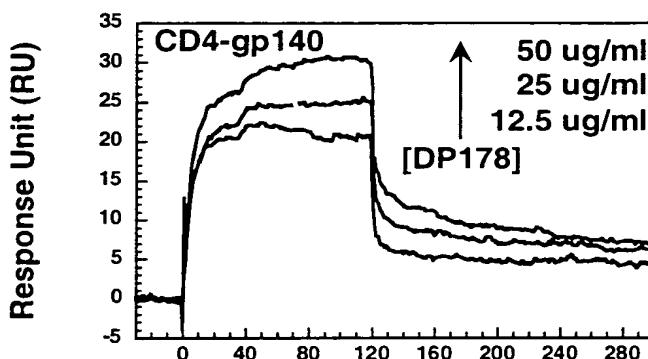
	k_{on} M ⁻¹ s ⁻¹	k_{off} s ⁻¹	K_d µM	$t_{1/2}$ s
DP178				
CD4-gp120	0.75×10^{-3}	1.5×10^{-3}	2.0	462
CD4-gp140	0.93×10^{-3}	1.0×10^{-3}	1.1	693
T649Q26L				
CD4-gp120	1.26×10^{-3}	3.2×10^{-3}	2.54	217
CD4-gp140	0.88×10^{-3}	1.1×10^{-3}	1.20	630

Figure 15

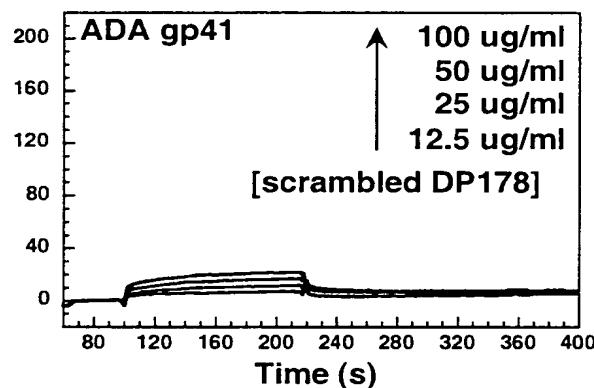
A)



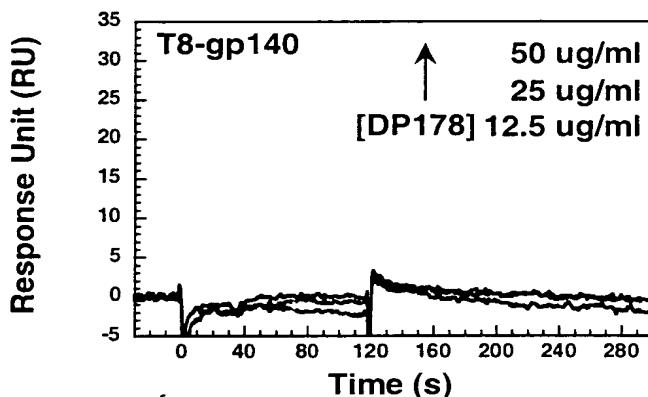
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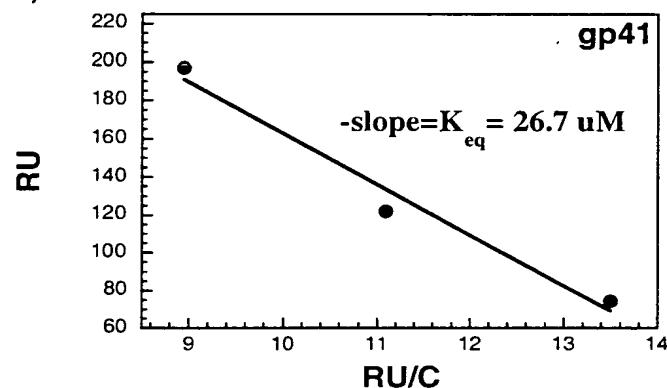
C)



D)



E)



F)

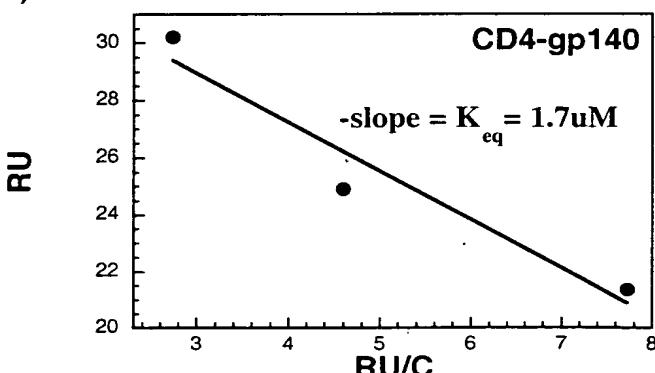


Figure 16

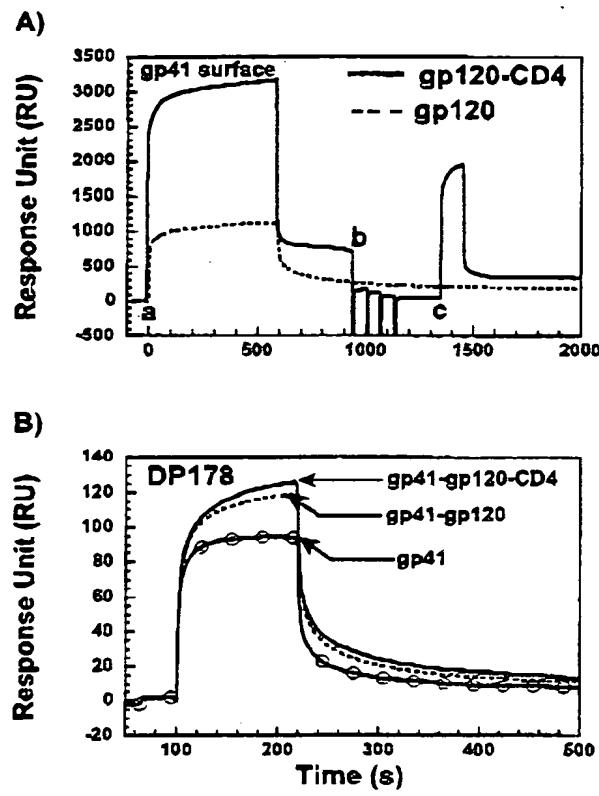


Fig 4E 7

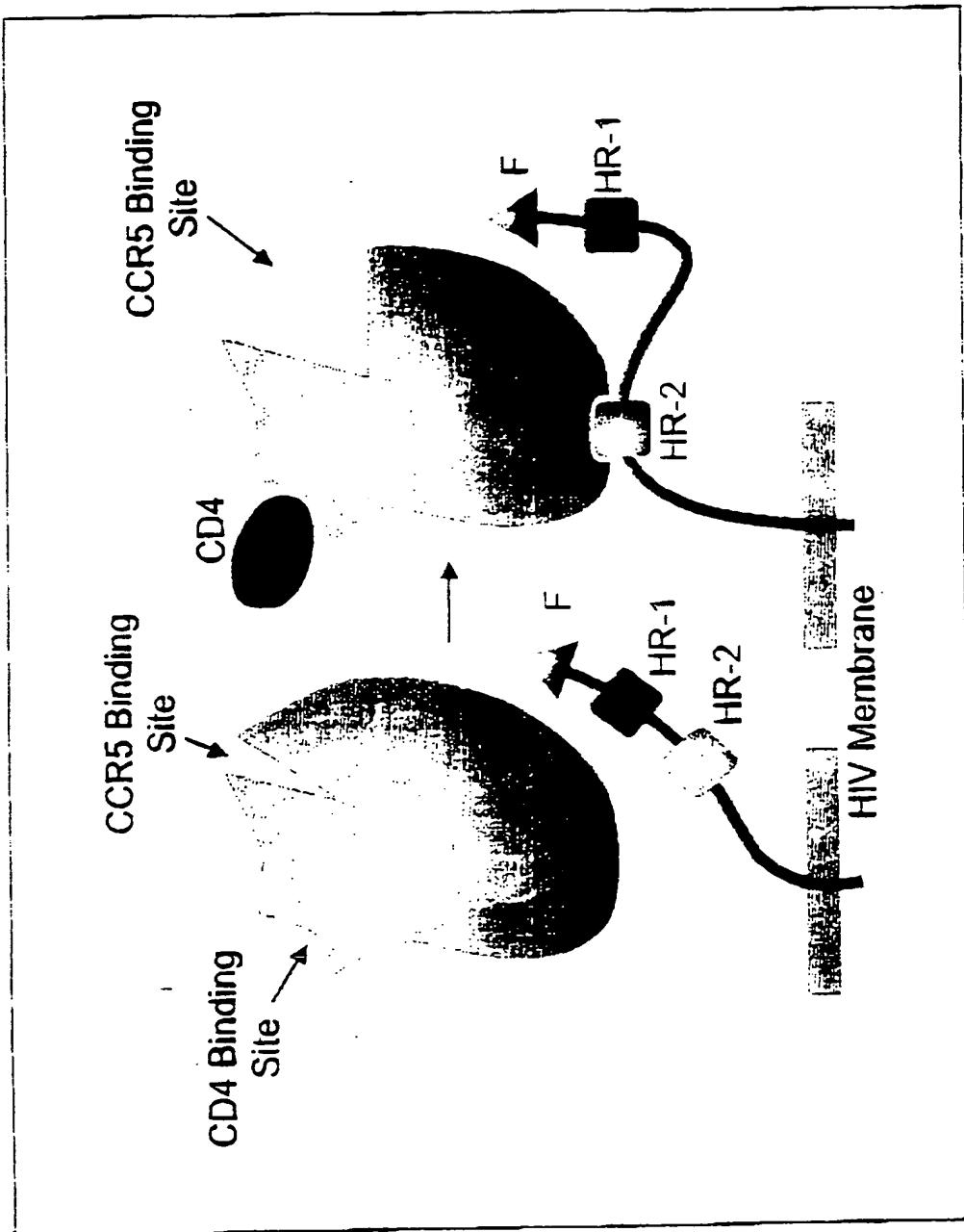


Figure 18

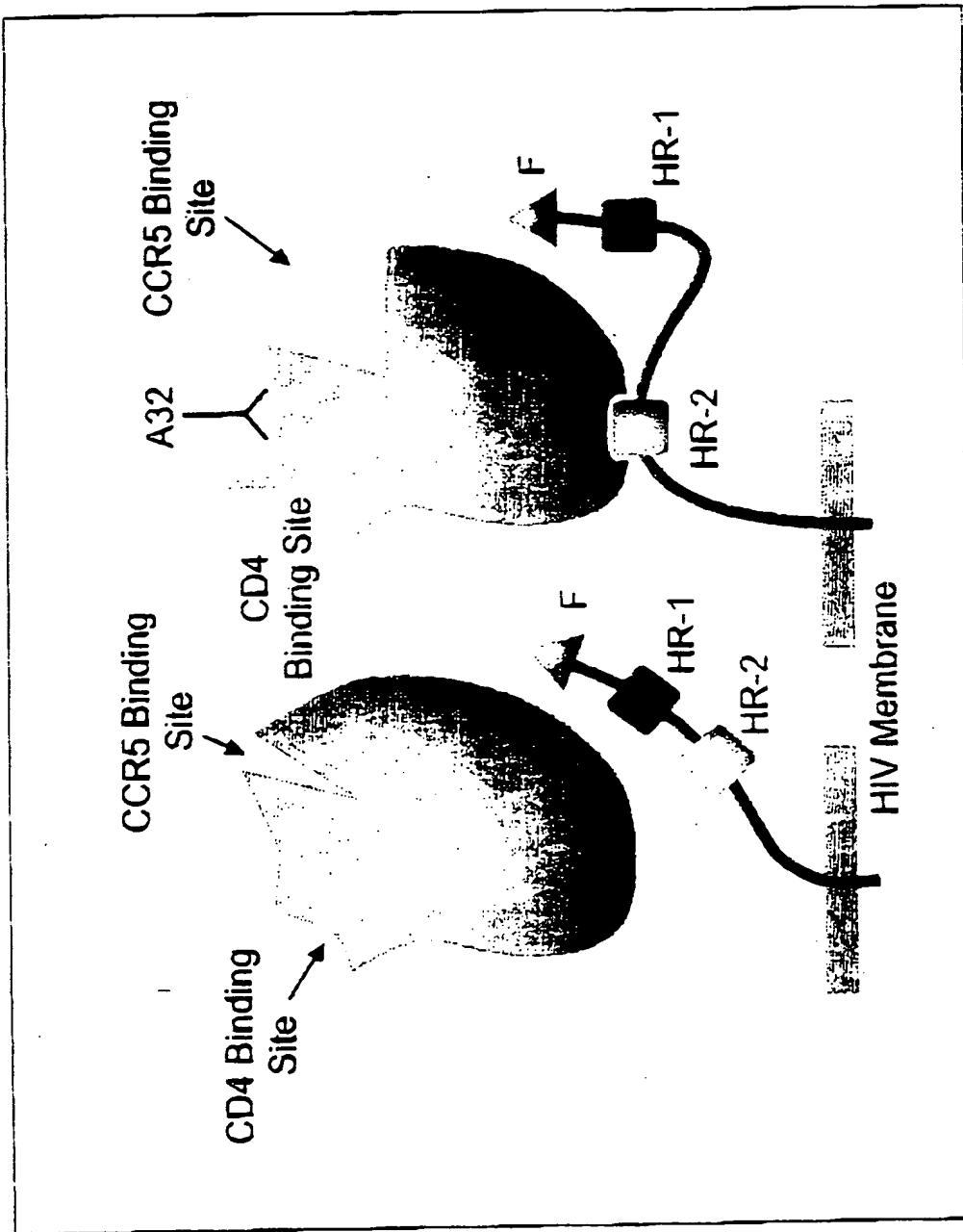


Figure 1

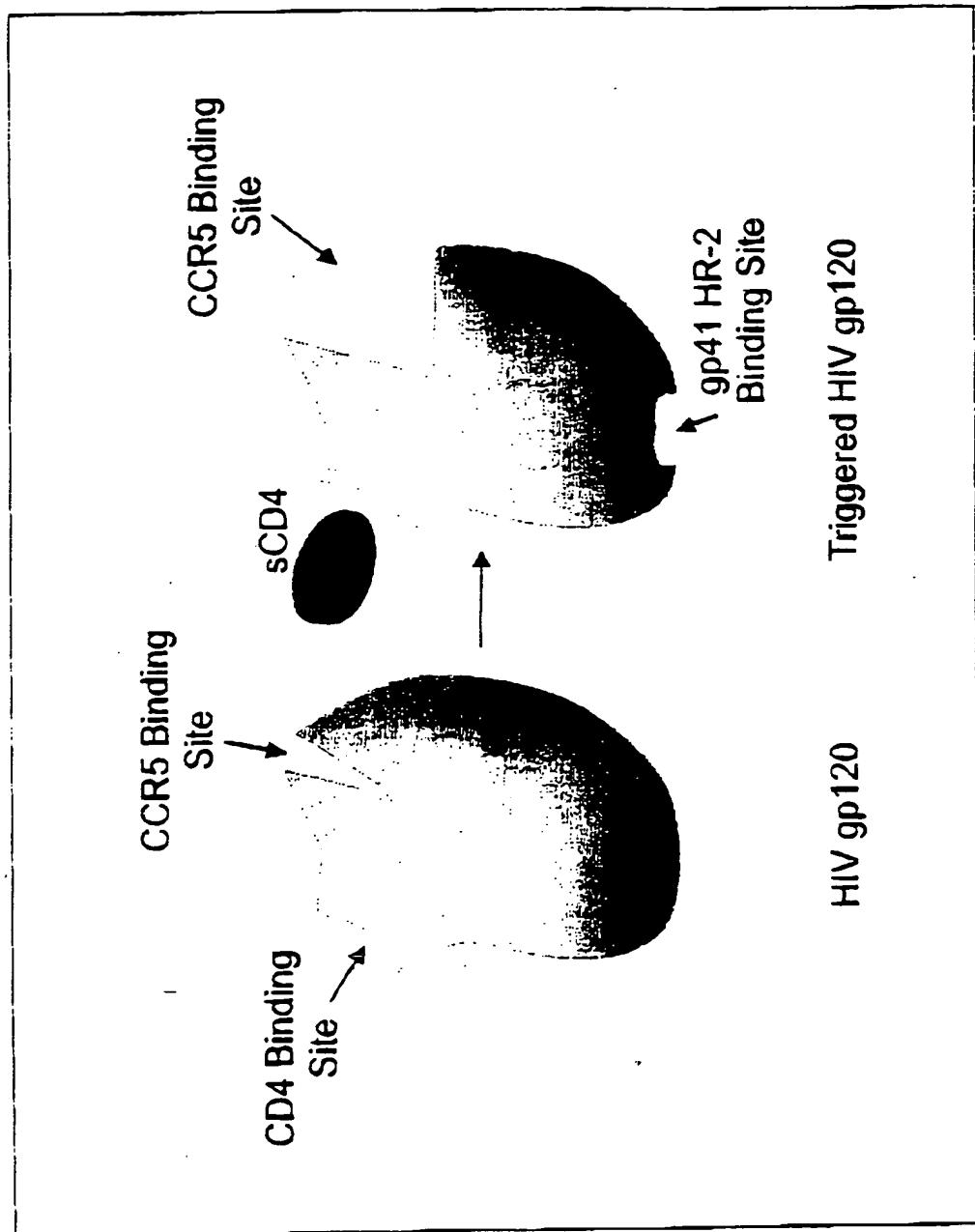


Figure 20

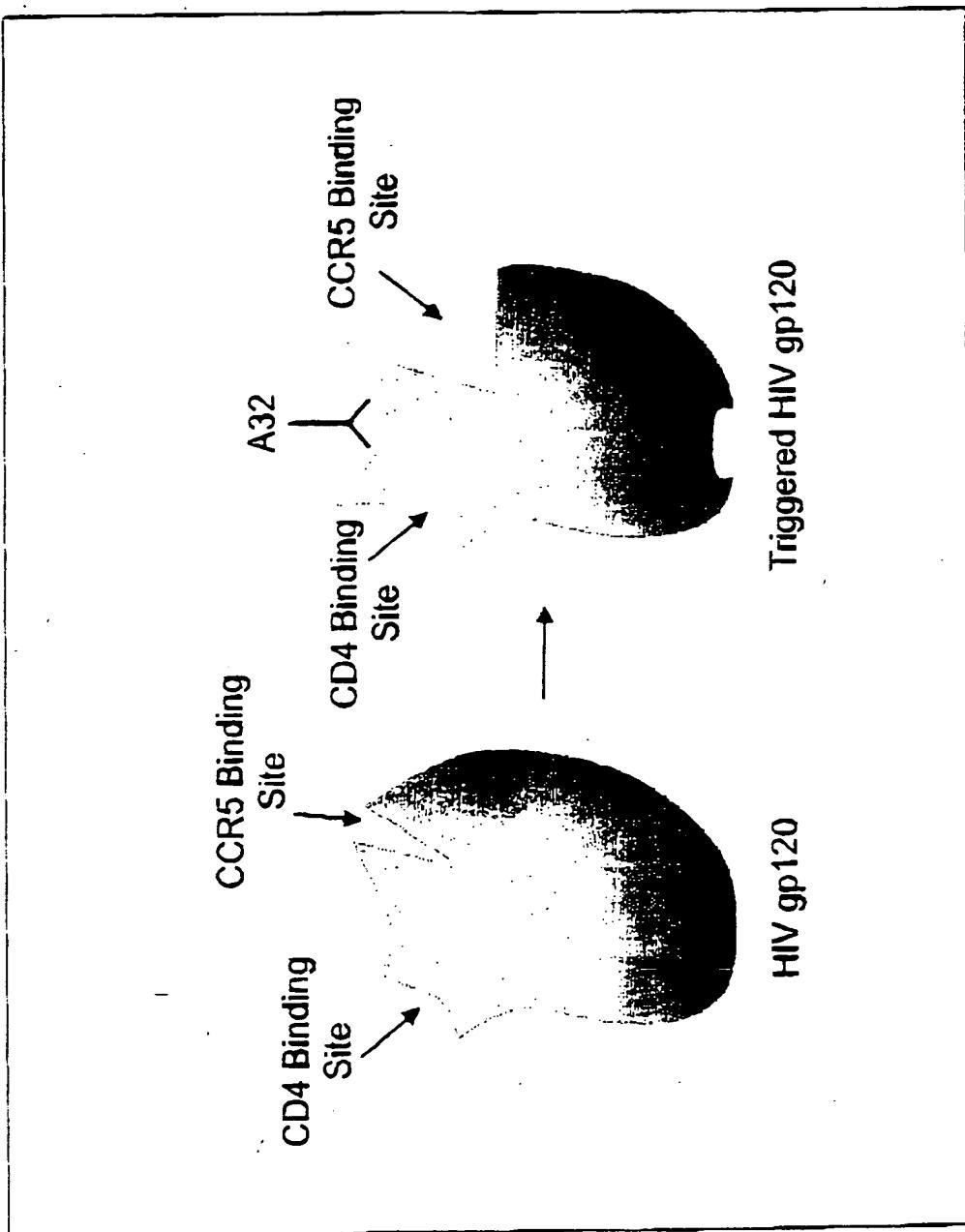
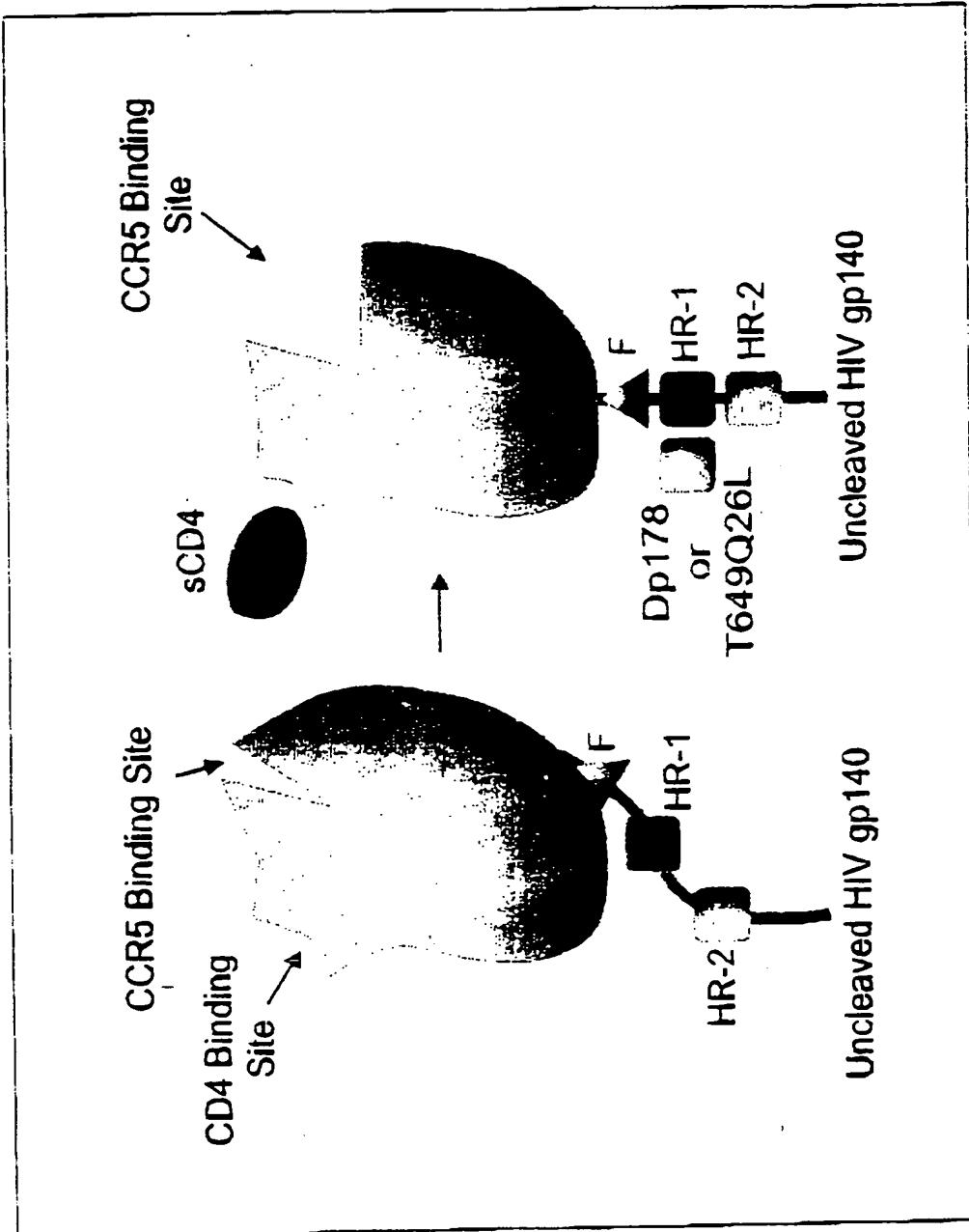


Figure - 21



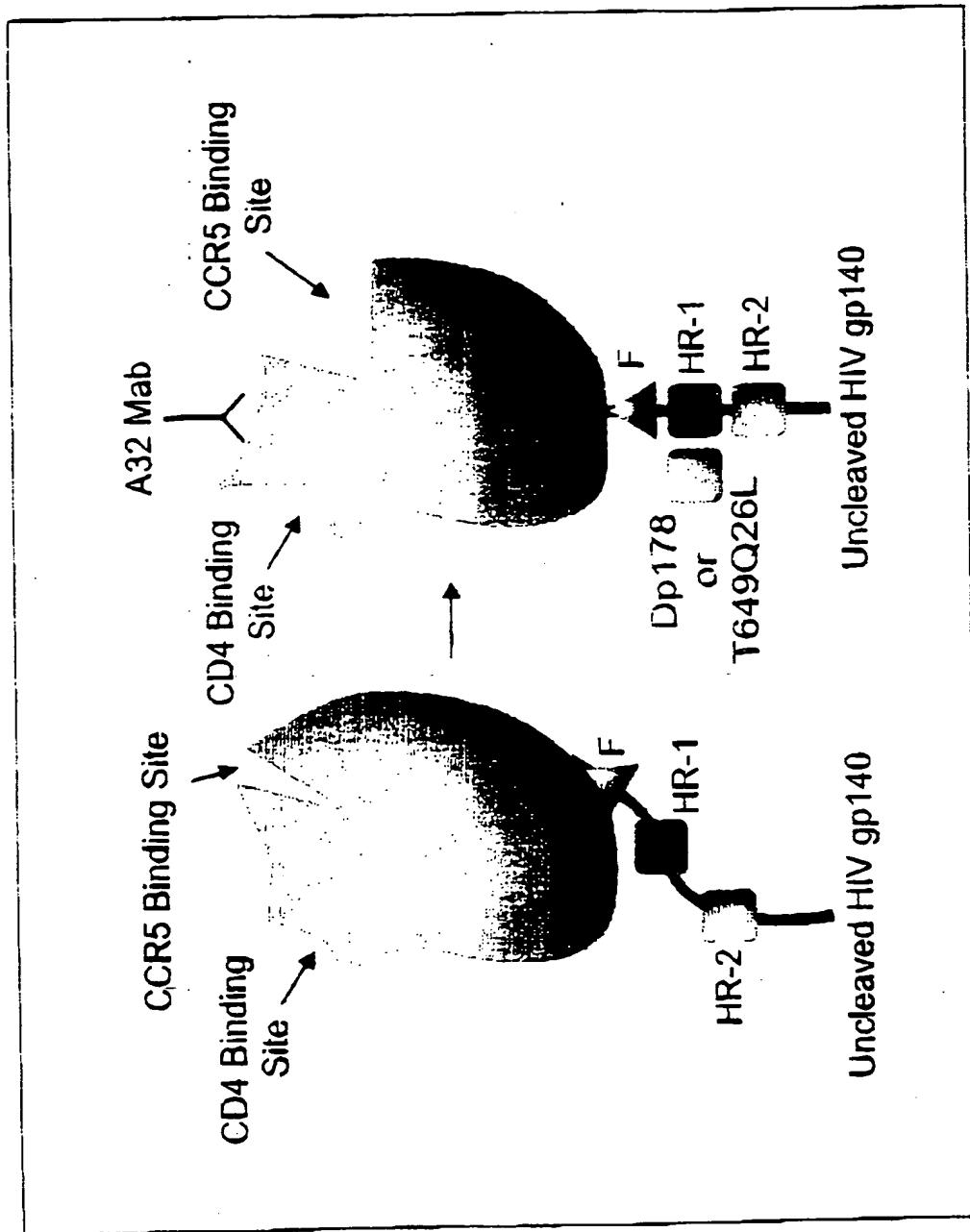


Figure 23

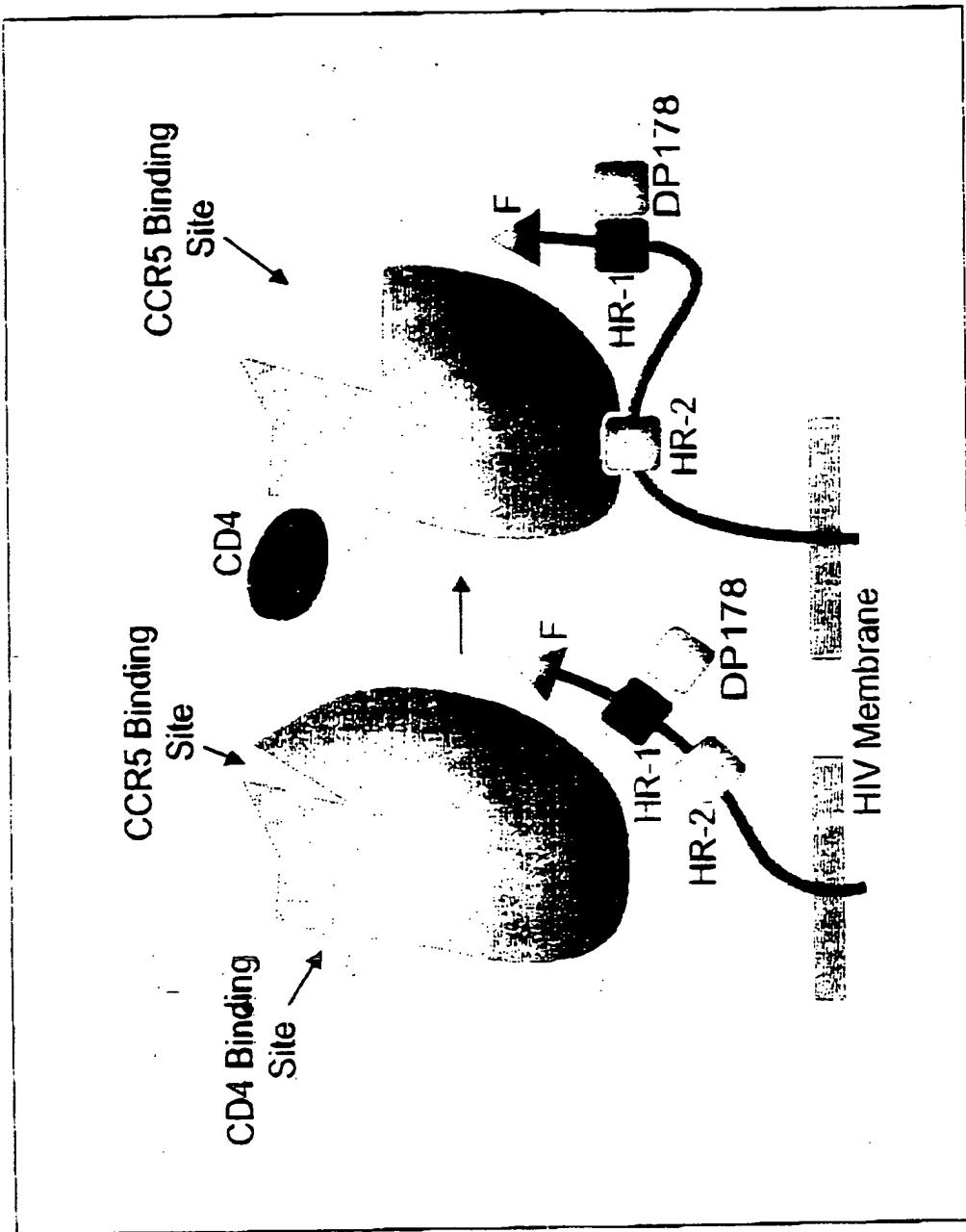


Figure 24

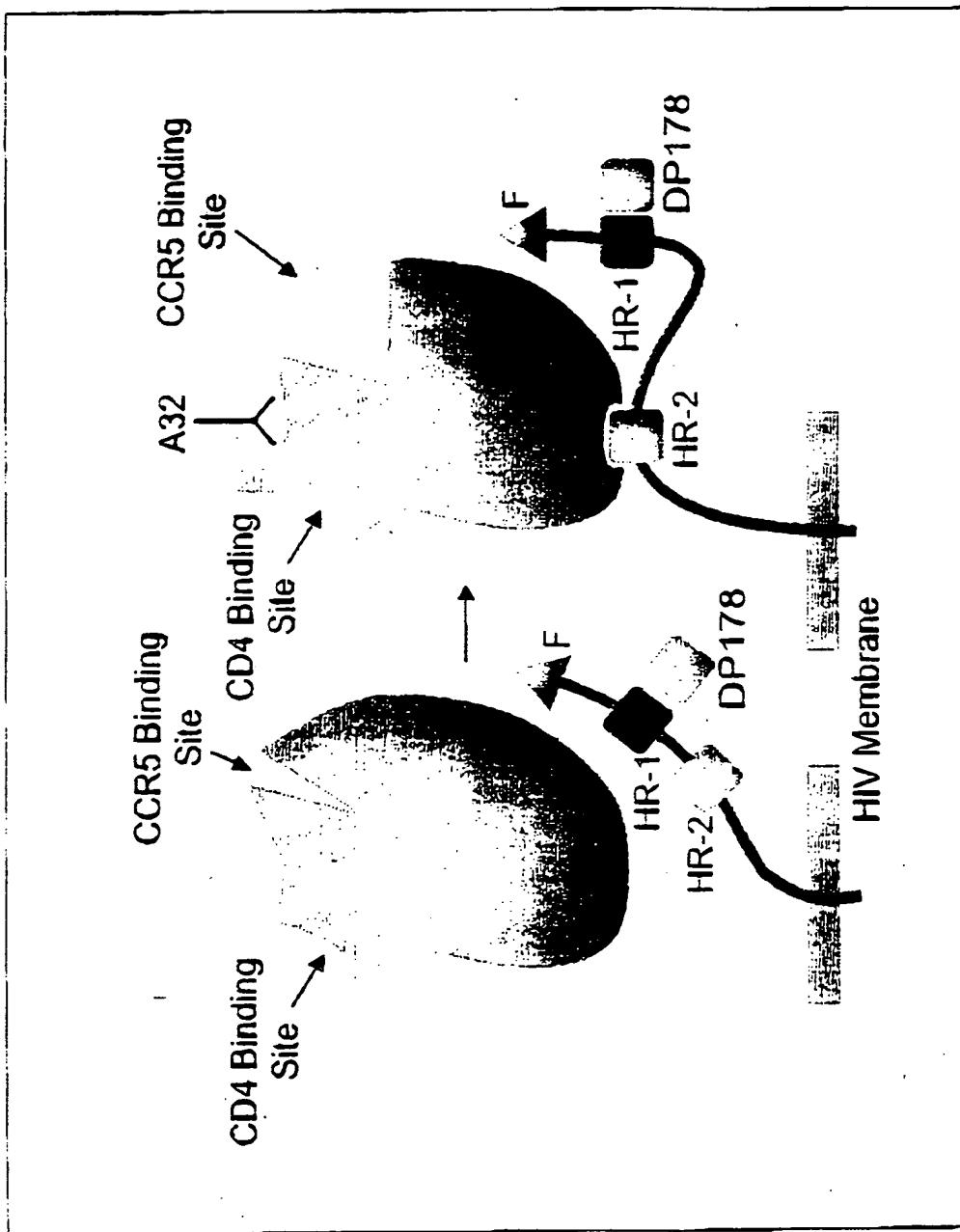


Figure 25

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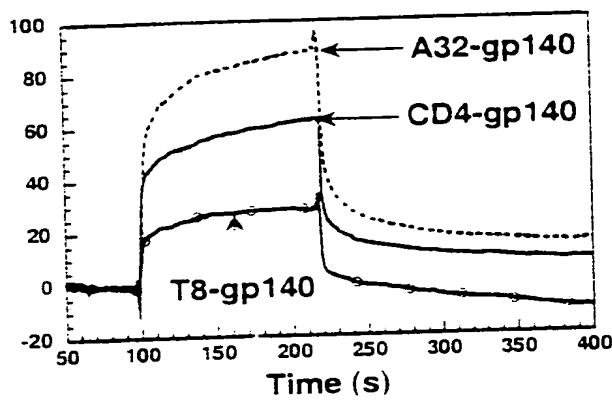


Figure 26